

# ○ Deflection angle & Deflection ○

	Deflection angle	Deflection
	$\phi_B = \frac{Pl^2}{2EI}$	$\delta_B = \frac{Pl^3}{3EI}$
	$\phi_B = \frac{wl^3}{6EI}$	$\delta_B = \frac{wl^4}{8EI}$
	$\phi_A = \frac{wl^3}{24EI}$	$\delta_C = \frac{5wl^4}{384EI}$
	$\phi_A = \frac{Pl^2}{16EI}$	$\delta_C = \frac{Pl^3}{48EI}$
	$\phi_A = \frac{MI}{3EI}$	$\delta_C = \frac{MI^2}{16EI}$
	$\phi_B = \frac{7wl^3}{48EI}$	$\delta_B = \frac{41wl^4}{384EI}$
	$\phi_B = \phi_C = \frac{wl^3}{48EI}$	$\delta_C = \frac{wl^4}{128EI}$

# Structural Engineering Formulas

**PETER I. KATTAN**



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